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RL	A01	3,022,783	02/27/1962	Tucker, Jr.	128	1	
	A02	3,605,123	09/20/1971	Hahn	3	1	
	A03	3,767,437	10/23/1973	Cruz, Jr.	106	161	
	A04	3,790,507	02/1974	Hodosh	433	173	
	A05	3,855,638	12/24/1974	Pilliar	3	1	
	A06	3,919,723	11/18/1975	Heimke et al.	3	1.9	
	A07	3,986,212	10/19/1976	Sauer	3	1.91	
	A08	3,987,499	10/26/1976	Scharbach et al.	3	1.91	
	A09	4,011,602	3/1977	Rybicki et al.	3	1.9	
	A10	4,051,598	10/04/1977	Sneer	32	10 A	
	A11	4,145,764	03/27/79	Suzuki, et al	3	1.9	
	A12	4,180,910	1/1974	Pilliar			
	A13	4,195,409	04/1980	Child	433	175	
	A14	4,199,864	04/29/1980	Ashman	433	175	
	A15	4,261,350	04/14/1981	Branemark et al.	128	92 BC	
	A16	4,330,891	05/25/1982	Branemark et al.	3	1	
	A17	4,336,618	06/29/1982	Branemark et al.	3	1	
	A18	4,406,761	09/27/1983	Shimogori et al.	204	144.5	
	A19	4,530,116	7/1985	Frey	623	23	
	A20	4,547,157	10/15/1985	Driskell	433	173	
	A21	4,547,327	10/15/1985	Bruins et al.	264	16	
	A22	4,608,052	08/26/1986	Van Kampen et al.	623	22	
	A23	4,629,464	12/16/1986	Takata et al.	623	16	
	A24	4,654,314	03/31/1987	Takagi et al.	501	82	
	A25	4,702,930	10/27/1987	Heide et al.	427	2	
	A26	4,704,126	11/03/1987	Baswell et al.	623	10	

EXAMINER: Robert Culbert	DATE CONSIDERED: 3/18/05

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	A27	4,722,688	02/02/1988	Lonca	433	173	
	A28	4,818,559	04/04/1989	Hama, et al	427	2	
	A29	4,826,434	05/02/1989	Krueger	433	174	
	A30	4,865,603	9/1989	Noiles	623	18	
	A31	4,871,578	10/03/1989	Adam et al.	427	2	
	A32	4,874,434	10/17/1989	Riggs, Jr.	134	3	
	A33	4,878,914	11/1989	Miwa et al.	623	16	
	A34	4,908,030	03/13/1990	Linkow, et al	623	16	
	A35	4,911,953	03/27/1990	Hosonuma, et al	427	224	
	A36	4,944,754	07/31/1990	Linkow, et al	623	16	
	A37	4,969,906	11/13/1990	Kronman	623	16	
	A38	4,988,299	01/29/1991	Branemark	433	174	
	A39	5,000,685	03/19/1991	Brajnovic	433	173	
	A40	5,030,096	07/09/1991	Hurson et al.	433	173	
	A41	5,071,351	12/10/1991	Green, et al	422	23	
	A42	5,188,800	02/23/1993	Green, et al	433	173	
	A43	5,190,795	03/02/1993	Culler	427	226	
	A44	5,199,873	04/06/1993	Schulte et al.	433	174	
	A45	5,205,745	04/27/1993	Kamiya			
	A46	5,219,361	06/15/1993	von Recum et al.	623	11	
	A47	5,222,983	6/1993	Schmitz et al.	623	16	
	A48	5,258,030	11/1993	Wolfarth et al.	623	16	
	A49	5,263,986	11/1993	Noiles et al.	623	22	
	A50	5,297,963	03/29/1994	Dafatry	433	172	
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	A52	5,316,477	05/31/1994	Calderon	433	173	

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	A54	5,360,448	11/19/1994	Thramann	623	18	
	A55	5,362,237	11/08/1994	Chalifoux	433	220	
	A56	5,366,374	11/1994	Vlassis	433	165	
	A57	5,368,480	11/29/1994	Balfour et al.	433	141	
	A58	5,368,483	11/29/1994	Sutter et al.	433	173	
	A59	5,399,090	03/31/1995	Padros-Fradera	433	173	
	A60	5,433,606	07/18/1995	Niznick et al.	433	173	
	A61	5,456,723	10/10/1995	Steinemann, et al	623	16	
	A62	5,478,237	12/26/1995	Ishizaswa	433	201.1	
	A63	5,484,286	01/1996	Hansson	433	201.1	
	A64	5,489,210	02/06/1996	Hanosh	433	173	
	A65	5,503,558	04/02/1996	Clokie	433	173	
	A66	5,564,923	10/15/1996	Grassi et al.	433	173	
	A67	5,571,017	11/1996	Niznick	433	174	
	A68	5,571,188	11/05/1996	Ellingsen et al.	623	16	
	A69	5,573,401	11/12/1996	Davidson et al.	433	201.1	
	A70	5,588,838	12/31/1996	Hansson et al.	433	173	
	A71	5,603,338	02/18/1997	Beaty	623	16	
	A72	5,863,201	01/26/1999	Lazzara et al.	433	201.1	
	A73	5,876,453	03/02/1999	Beaty	623	16	
	A74	5,989,027	11/23/1999	Wagner et al.	433	173	
	A75	6,069,295	05/30/2000	Leitao	623	11	

EXAMINER: M. A. Calvert | **DATE CONSIDERED:** 3/18/05

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M	B02	926,552	05/22/1973	Canada	3	1	N/A
M	B03	EP 202031 A2	11/20/1986	European	A 61 F	2/04	N/A
M	B04	EP 212929 A2	03/04/1987	European	A 61 F	2/30	N/A
M	B05	EP 0213836	11/1987	European			
M	B06	EP 0409810	01/1991	European			
~~—~~	~~B07~~	~~EP 455929 A1~~	~~01/02/1991~~	~~European~~	~~A 61 F~~	~~2/42~~	~~Abs.~~
M	B08	EP 606566 A1	07/20/1994	European			
M	B09	2 289 160	10/30/1974	France	A 61 F	1/00	Abstract
~~—~~	~~B10~~	~~2 421 595~~	~~77/03/1979~~	~~France~~	~~A 61 C~~	~~8/00~~	~~Abs.~~
M	B11	2 313 678	10/03/1974	Germany	A 61 F	1/00	Abstract
M	B12	27 17 615 A1	10/26/1978	Germany	A 61 F	1/00	Abs.
M	B13	2,045,083 A	01/11/1984	Great Britain	A 61 F	1/00	N/A
M	B14	1148254	06/1989	Japan			
M	B15	WO 92/05745	04/1992	PCT			
~~—~~	~~B16~~	~~332 486~~	~~11/08/1971~~	~~Sweden~~	~~A 61 F~~	~~1/00~~	~~No~~
~~—~~	~~B17~~	~~CH 679117 A5~~	~~12/31/1991~~	~~Switzerland~~			
M	B18	834,256	05/04/1960	U.K.	A 01 N		N/A
M	B19	2,252,501 A	08/12/1992	UK			

EXAMINER: Nikki Collier	DATE CONSIDERED: 3/18/05

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MV	C01	A histomorphometric and removal torque study of screw-shaped titanium implants with three different surface topographies (Ref. D33)
	C02	Adhesion of Bone to Titanium (Ref. 27)
	C03	Albrektsson, T., P.I. Branemark, H.A. Hansson & J. Lindstrom, "Osseointegrated Titanium Implants," 1991.
	C04	An animal study of c.p. titanium screws with different surface topographies (Ref. D 32)
	C05	ASTM Designation F 86-84, "*Standard Practice for Surface Preparation and Marking of Metallic Surgical Implants*".
	C06	Baier, R. E., et al., "*Surface Energetics And Biological Adhesion*," International Symposium on Physicochemical Aspects of Polymer Surfaces, Volume 2, pp. 895-909
	C07	Baier, R.E; A.E. Meyer "*Implant Surface Preparation*," International Journal of Oral & Maxillofacial Implants, Vol. 3, 9-20, 1988.
	C08	Binon, P. "*Evaluation of Machining Accuracy and Consistency of Selected Implants, Standard Abutments, and Laboratory Analogs*," The International Journal of Prosthodontics, Vol. 8, 162-178, 1995.
	C09	Bio Materials 1996 Vol. 17, No. 6 pp. 605-616 "Bone response to surface-modified titanium implants: studies on the early tissue response to machined and electropolished implants with different oxide thicknesses", Larsson et al.
	C10	Bio Materials 1994 Vol. 15, No. 13, pp. 1062-1074 "Bone response to surface modified titanium implants: studies on electropolished implants with different oxide thicknesses and morphology", Larsson et al.
	C11	Buser et al., "Interface Shear Strength of Titanium Implants With a Sandblasted and Acid-Etched Surface: A Biomechanical Study in the Maxilla of Miniature Pigs," *J Biomed Mater Res*, 45 (1999), pgs. 75-83.
	C12	Boyan et al., "Titanium Surface Roughness Alters Responsiveness of MG63 Osteoblast-Like Cells to $1\alpha,25\text{-}(OH)_2D_3$," *J Miomed Mater Res*, 39 (1998), pgs. 77-85.
	C13	Bowers, K.; Keller, J.; Randolph, B.; Wick, D.; Michaels, C. "*Optimization of Surface Micromorphology for Enhanced Osteoblast Responses In Vitro*" International Journal of Oral & Maxillofacial Implants. Vol. 7 No. 3, Pages 302-310, 1992.
	C14	Branemark, P.I.; et al, *Osseointegrated implants in the Treatment of the Edentulous Jaw Experience from a 10-year period*, Stockholm, Almqvist & Wiksell International, 1977.
	C15	Per-Ingvar Branemark, M.D., Ph.D., "Tissue-Integrated Prostheses" (Ref. 43)

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	C16	Buser, D., et al., "*Influence Of Surface Characteristics On Bone Integration Of Titanium Implants, A Histomorphometric Study In Miniature Pigs*," Journal of Biomedical Materials Research, Volume 25, pp. 889-902 (1991).
	C17	Daniel Buser, DDS, et al., "Removal Torque Values of Titanium Implants in the Maxilla of Miniature Pigs", pp. 611-619
	C18	Carlsson L.; T. Rostlund; B. Albrektsson; T. Albrektsson "*Removal Torques for Polished and Rough Titanium Implants*," International Journal of Oral & Maxillofacial Implants, Vol. 3, 21-24, 1988.
	C19	Cochran et al., "Bone Response to Unloaded and Loaded Titanium Implants With a Sandblasted and Acid-Etched Surface: A Histometric Study in the Canine Mandible," *J Biomed Mater Res*, 40 (1998), pgs 1-11.
	C20	Cochran et al., "Evaluation of an Endosseous Titanium Implant With a Sandblasted and Acid-Etched Surface in the Canine Mandible: Radiographic Results," *Clinical Oral Implants Research* 1996: 7: 240-252.
	C21	Cook, S.; F. Georgette; H. Skinner; R. Haddad, Jr. "*Fatigue properties of carbon- and porous-coated Ti-6Al-4V alloy*," Journal of Biomedical Materials Research, Vol. 18, 497-512, 1984.
	C22	Stephen D. Cook, Ph.D. et al., "Interface Mechanics and Histology of Titanium and Hydroxylapatite-Coated Titanium for Dental Implant Applications" (Ref. 47)
	C23	Curtis, A. S. G., et al., "*The Effects Of Topographic And Mechanical Properties Of Materials On Cell Behavior*," *Critical Reviews in Biocompatibility*, Volume 5, Issue 4, pp. 343-362 (1990)
~~——~~	~~C24~~	~~Das Prinzip der neuen Ledermann-Schraube (German Reference D3)~~
	C25	de Groot, K., et al., "*Plasma Sprayed Coatings Of Hydroxylapatite*," Journal of Biomedical Materials Research, Volume 21, pp. 1375-1381 (1987)
	C26	C. de Putter et al., Implant Materials in Biofunction, "Removal Forces For Osseointegrated Titanium Implants" (Ref. 31)
	C27	Declaration of Prabhu Gubbi presenting information on the surfaces of 61 implants (November 2, 2001)
	C28	Denar Introduces Steri-Oss: The First Complete Oral Rehabilitation Implant System
	C29	"Design and Surface Characteristics of 13 Commercially Available Oral Implant Systems," *Int. J. Oral Maxillofactial Implants*, 1993, 8:622-633.
	C30	Eberhardt, A., et al., "*Effects Of Precoating Surface Treatments On Fatigue Of Ti-6Al-4V*," Journal of Applied Biomaterials, Volume 6, pp. 171-174 (1995)
	C31	Effect of a Blycoprotein Monomolecular Layer on the Integration of Titanium Implants in Bone (Ref. D48)

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	C32	Gomez-Roman, German, et al., "The Frialit-2 Implant System: Five-Year Clinical Experience In Single-Tooth And Immediately Postextraction Applications," The International Journal of Oral & Maxillofacial Implants, Vol. 12, No. 3, pp. 299-309 (1997)
	C33	Gotfredsen, K., et al., "Histomorphometric And Removal Torque Analysis for TiO_2-Blasted Titanium Implants" Clinical Oral Impl. Res., February 6, 1992, pp. 77-84.
	C34	edited by G. Heimke, U.Soltesz and A.J.C. Lee, "The Influence of Various Titanium Surfaces on the Interface Shear Strength Between Implants and Bone," Clinical Implant Materials, *Advances in Biomaterials*, Vol. 9, 1990 pgs. 309-314.
	C35	Patrick J. Henry, B.D.Sc., M.S.D., F.R.A.C.D.S., "Comparative Surface Analysis of Two Osseointegrated Implant Systems" (Ref. D19)
	C36	"Influence of Surface Characteristics on Bone Integration of Titanium Implants," *Journal of Biomedical Materials Research*, Vol. 25, pp. 889-902, John Wiley & Sons, Inc., 1991.
	C37	"Ion-Beam-Sputter Modification of th, e Surface Morphology of Biological Implants," *J. Vac. Soc. Technol.*, Vol. 14, No. 1, Jan/Feb. 1977, pp. 326-331.
	C38	Journal of Materials Science Materials In Medicine (1997), pp. 721-729 "Bone response to surface modified titanium implants - studies on the tissue response after 1 year to machined and electropolished implants with different oxide thicknesses"
	C39	Karagianes, M. T., D.V.M., "*Porous Metals As A Hard Tissue Substitute*," Biomat. Med. Dev., Art. Org., Volume 1, No. 1, pp. 171-181 (1973)
	C40	Kasemo, B., et al., "*Metal Selection And Surface Characteristics*," Tissue-Integrated Prostheses Osseointegration In Clinical Dentistry (Quintessence Books), pp. 99-116 (1985)
	C41	Kiesweiter et al., "Surface Roughness Modulates the Local Production of Growth Factors and Cytokines by Osteoblast-Like MG-63 Cells," *Journal of Biomedical Materials Research*, Vol. 32, (1996), pgs. 55-63.
	C42	Klokkevold, P., et al., "*Evaluation Of A New Chemically Enhanced Implant Surface By Torque Removal Tests In The Rabbit Femur*," Clinical Oral Implants Research (1997)
	C43	Lazzara, R., et al., "*Retrospective Multicenter Analysis Of 31 Endosseous Dental Implants Placed Over A Five Year Period*," Clinical Oral Implants Research, Volume 7, pp. 73-83 (1996)
	~~C44~~	~~Philippe D. Ledermann, Dr. med. dent., "Die Quintessenz" (Ref. 26)~~
	C45	Ledermann et al., *The Ha-TI Implant*, Schweiz Monatsschr Zahnmed, Vol. 101:5/1991 (7 pages)
	~~C46~~	~~Philippe D. Ledermann, Dr. med. dent. "Heute so zuverlässig wie vor 50 Jahren" German (Ref. D4)~~
	~~C47~~	~~Philippe D. Ledermann, Dr. med. dent., "Swiss Dent" (Ref. D25)~~

EXAMINER: R. L. S Cabbot	DATE CONSIDERED: 3/18/05

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m	C49	Messersmith, P., et al., "*Stress Enhancement And Fatigue Susceptibility Of Porous Coated Ti-6A1-4V Implants: An Elastic Analysis*," Journal of Biomedical Materials Research, Volume 24, pp. 591-604 (1990)
	~~C50~~	~~Microfocus (Ref. D50)~~
m	C51	W. M. Murphy, "Tissue Reaction of Rats and Guinea-Pigs to Co-Cr Implants With Different Surface Finishes" (Ref. D8)
m	C52	Olefjord, Ingemar, et al., "*Surface Analysis Of Four Dental Implant Systems*," International Journal of Oral & Maxillofacial Implants, Volume 8, No. 1, pp. 32-40 (1993)
	~~C53~~	~~Orale Implantologie (Ref. 36)~~
m	C54	Paragon Technology Report (10/97)
m	C55	Persson LG, Berglundh T, Sennerby L, Lindhe J., "Re-Osseointegration After Treatment of Peri-Implantitis at Different Implant Surfaces. An Experimental Study in the Dog," *Clin Oral Impl. Res.*, 12 (2001), pgs. 595-603.
m	C56	Predecki, Paul, et al., "*Attachment Of Bone To Threaded Implants By Ingrowth And Mechanical Interlocking*," Journal of Biomedical Materials Research, Volume 6, pp. 401-412 (1972)
m	C57	Price List, Friatec, 40 pages (October 1998)
m	C58	Price List and Catalog, Friadent, 35 pages (September 2000)
m	C59	Product Literature for Frialit®-2, Abridged Directions For Use, Interpore International and Friatec, 20 pages (believed to be 1996 or 1997)
m	C60	Product Literatyre for Frialit®-2, Friadent, 2 pages (believed to be 2000)
m	C61	Product Literature for Frialit®-2 Implant System, Friadent, 12 pages (February 1999)
m	C62	Product Literature for Frialit®-2 Implant System, Interpore International and Friatec, 3 pages (1996)
m	C63	Removal Torques for Polished and Rough Titanium Implants (Ref. D49)
m	C67	W. Eugene Roberts, D.C.S., Ph.D., et al., "Osseous adaptation to continuous loading of rigid endosseous implants" (Ref. D7)
m	C68	"Short-term Plasma-cleaning Treatments Enhance In Vitro Osteoblast Attachment to Titanium," *Journal of Oral Implantology*, Vol. XVIII, No. 2 (1992), pp. 130-137.
m	C69	Schulte, J., "*External Hex Manufacturing Tolerances Of Six Implant Systems: A Pilot Study*," Implant Dentistry, pp. 51-53 (Spring 1994)

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	C71	Schwartz et al., "Effect of Titanium Surface Roughness on Chonrocyte Proliferation, Matrix Production, and Differentiation Depends on the State of Cell Maturation,""*Journal of Biomedical Materials Research*, Vol. 30, 145-155 (1996), pgs. 145-155.
	C72	Shultz, R. R., et al., "*A Study Of Fatigue Properties Of Hydroxylapatite Coated Titanium Alloy Implant Materials*," Department of Biomedical Engineering, Memphis State University
	C73	Smith, Todd, "The Effect of Plasma-Sprayed Coatings on the Fatigue of Titanium Alloy Implants" (Ref. 29)
	C74	Sorensen, J., et al., "*Comparison Of Interface Fidelity Of Implant Systems*," Journal of Dental Research, Volume 70, No. 540, Abstract No. 2191 (1991)
	C75	Standard Practice for Surface Preparation and Marking of Metallic Surgical Implants (Ref. D5)
	C76	Standard Recommended Practice for Descaling and Cleaning Titanium and Titanium Alloy Surfaces (Ref. D6)
	C77	David E. Steflik, MS, EdD, et al., "Histomorphometry of the Dental Implant-Bone Interface: One-Year Results of a Comparative Invesitgation in Dogs", pp. 501-511
	C78	David E. Steflik, MS, EdD, et al., "A Comparative Investigation in Dogs: 2-Year Morphometric Results of the Dental Implant-Bone Interface", pp. 15-25
	C79	"Step-Screw Implant," *Dental Products Report*, March 1993.
	C80	Strauman SLA: Reducing healing time further
	C81	Strauman Literature Abstracts
	C82	Sullivan, Daniel, et al., "*Preliminary Results Of A Multicenter Study Evaluating Chemically-Enhanced Pure Titanium Implants,*" Journal of Prosthetic Dentistry (1997)
	C83	Sutter et al., *The New Restorative Cocnept of the ITI Dental Implant System: Design and Engineering*; Volume 13, No. 5, pp. 408-413, 1993
	C84	S.A.V. Swanson, DSc (Eng), PhD, DIC, ACGI, MIMechE, et al. "The Scientific Basis of Joint Replacement" (Ref. D41)
	C85	Tarnow, Dennis P., DDS, "*Dental Implants In Periodontal Care*," Current Science, 1993, pp. 157-162
	C86	The Dependence of the Removal Torque of a Leg Screw Surface and Implantation Time (Ref. D30)

EXAMINER:	DATE CONSIDERED: 3/18/05

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Form PTO-1449 (modified)	Atty. Docket No. 47168-00033USC3	Serial No. Not Assigned
List of Patents and Publications for Applicant's **INFORMATION DISCLOSURE STATEMENT**	Applicant Keith D. Beaty	
Page 10 of 10	Filing Date: 11/05/2003	Group: Not Assigned

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C87	"The Influence Of Implant Surface On Hard- And Soft Tissue Integration," Friatec website, 11 pages (written after June 6, 1998)
	C88	"The Influence of Various Titanium Surfaces On the Interface Strength between Implants and Bone," *Advances in Biomaterials*, Vol. 9, pp. 309-314, Elsevier Science Publishers BV, Amsterdam, 1990.
	C89	Kevin A. Thomas et al., "An evaluation of variables influencing implant fixation by direct bone appostion" (Ref. 46)
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	C93	Weinlaender, M., et al., "*Histomorphometry Of Bone Apposition Around Three Types Of Endosseous Dental Implants*," International Journal of Oral & Maxillofacial Implants, Volume 7, No. 4, pp. 491-496 (1992)
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